

LISTING OF THE CLAIMS

1. (Currently Amended) An electronic device cooling apparatus comprising:
a primary cooling unit which is disposed so as to face a surface of an electronic device;
an auxiliary cooling unit which is disposed so as to face ~~a~~another surface of the electronic device different from the surface that the primary cooling unit faces; and
a controller which is operable to drive the primary cooling unit and the auxiliary cooling unit
and drives at least one of the primary cooling unit and the auxiliary cooling unit based on how heat
is generated from the electronic device so as to cool the electronic device, wherein
the primary cooling unit is based on a cooling mechanism different from that of the auxiliary cooling unit.

2. (Canceled).

3. (Original) The electronic device cooling apparatus according to claim 1, wherein the cooling capacity of the auxiliary cooling unit per unit time is higher than that of the primary cooling unit.

4. (Canceled).

5. (Previously presented) The electronic device cooling apparatus according to claim 1, wherein the auxiliary cooling unit is provided with a cooling nozzle, and
the controller controls a coolant introduced in the cooling nozzle and drives the auxiliary cooling unit by delivering a jet of coolant from the cooling nozzle.

6. (Previously presented) The electronic device cooling apparatus according to claim 1, further comprising a temperature measuring unit which measures the temperature of a surface of the electronic device, wherein
when a rise in the measured temperature per unit time exceeds a predetermined threshold

value, the controller drives the auxiliary cooling unit to cool the electronic device.

7. (Currently Amended) An electronic device cooling apparatus comprising:

a primary cooling unit which is disposed so as to face a predetermined surface of an electronic device;

an auxiliary cooling unit which delivers a jet of coolant to the electronic device via a through hole provided in a substrate that faces ~~a~~another surface of the electronic device different from the predetermined surface; and

a controller which is operable to drive the primary cooling unit and the auxiliary cooling unit and drives at least one of the primary cooling unit and the auxiliary cooling unit based on how heat is generated from the electronic device so as to cool the electronic device.

8. (Cancelled).

9. (Withdrawn) An electronic device cooling method comprising:

measuring the temperature of a surface of an electronic device;

determining whether a rise in the temperature of the surface of the electronic device per unit time exceeds a predetermined threshold value as a result of time variation; and

spraying the electronic device with a jet of coolant when the rise exceeds the threshold value.

10. (Currently amended) An electronic device cooling method comprising:

measuring the temperature of a surface of an electronic device;

determining whether the measured temperature exceeds a first predetermined threshold value;

cooling the surface of the electronic device by a first cooling unit when the measured temperature exceeds the first predetermined threshold value;

determining whether a rise in the temperature of the surface of the electronic device per unit time exceeds a second predetermined threshold value as a result of time variation; and

cooling the surface of the electronic device by a second cooling unit when the rise exceeds the second predetermined threshold value,

wherein the first cooling unit is based on a cooling mechanism different from that of the

| second cooling unit.

11. (Withdrawn) A computer program product for controlling the cooling of an electronic device, comprising:

a measuring module which measures the temperature of a surface of the electronic device;

a determining module which determines whether a rise in the temperature of the surface of the electronic device per unit time exceeds a predetermined threshold value as a result of time variation; and

a driving module which drives a cooling nozzle when the rise exceeds the predetermined threshold value so as to deliver a jet of coolant to the electronic device.

12. (Cancelled).

13. (Withdrawn) A computer readable recording medium having embodied thereon a computer program product for controlling the cooling of an electronic device, the computer program product comprising:

a measuring module which measures the temperature of a surface of the electronic device;

a determining module which determines whether a rise in the temperature of the surface of the electronic device per unit time exceeds a predetermined threshold value as a result of time variation; and

a driving module which drives a cooling nozzle when the rise exceeds the predetermined threshold value so as to deliver a jet of coolant to the electronic device.

14. (Currently Amended) A computer readable recording medium having embodied thereon a computer program product for controlling the cooling of an electronic device, the computer program product comprising:

a measuring module which measures the temperature of a surface of the electronic device;

a first determining module which determines whether the measured temperature exceeds a first predetermined threshold value;

a first cooling module which causes a first cooling unit to cool the surface of the electronic device when the measured temperature exceeds the first predetermined threshold value;

a second determining module which determines whether a rise in the temperature of the surface of the electronic device per unit time exceeds a second predetermined threshold value as a result of time variation; and

a second cooling module which causes a second cooling unit to cool the surface of the electronic device when the rise exceeds the second predetermined threshold value,

wherein the first cooling unit is based on a cooling mechanism different from that of the second cooling unit.